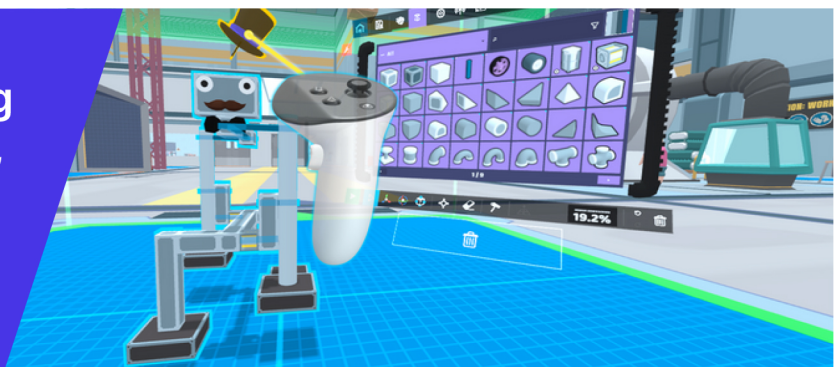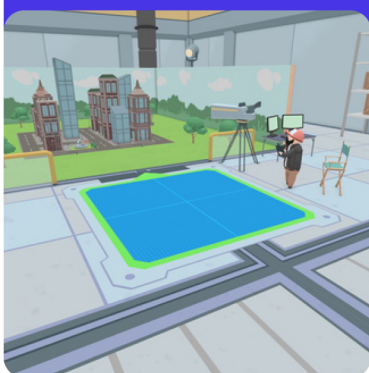# inspirit

Robotics with Virtual Reality!

Empower your students in building the future with hands-on robotics, no tools required, through immersive virtual reality experiences.

Robotics Skills Modules

CONSTRUCT ROBOTS

OPERATE ROBOTS

REPAIR ROBOTS

Designed for hands-on learners, this immersive training experience lets you assemble complex robots from the ground up, operate them in realistic environments, and diagnose & fix technical issues like a pro.

Key Features:

- *Robot design & assembly*
- *Control system operation*
- *Troubleshooting & repairs*
- *Safety protocols & best practices*

Next Generation Science Standards
- *MS-ETS1-1*
- *MS-ETS1-2*
- *MS-ETS1-3*
- *MS-ETS1-4*

Benchmarks for Science Literacy
- *3A/M3*
- *3B/M4a*
- *3C/M8*

ISTE Standards for Students
- *4a*
- *4c*
- *4d*

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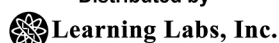
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Robotics Skills Modules
25 robotics skills available on Meta Quest VR headsets

CONSTRUCT & OPERATE CHALLENGE MODULES

- **Same Day Delivery**: Demonstrate proficiency in basic tank-style driving controls.

- **Kaiju Catastrophe**: Build a robot capable of flattening the city in the movie set.

- **Sandwich Server**: Deliver a sandwich in a bustling restaurant, keeping it upright and on the plate, while uncovering hidden bonus challenges.

- **Roaring Refuse**: Build a robot that can pick up the companion cube and place it in the incinerator.

- **Pinata's Peril**: Design a robot capable of reaching elevated targets and breaking them efficiently.

- **Tippy Toe Tidy Up**: Guide your robot to clean a dusty bedroom without disturbing its sleeping occupant or moving furniture.

- **Wood & Chips**: A robotics challenge to players cut and load dead trees, remove branches, and transport logs.

- **Robo Coffee**: Get the robot to prepare and deliver a custom coffee order while navigating obstacles.

- **The Berry on Top**: Build robots capable of decorating at least two out of three cakes on an assembly line with cherries.

- **Freights in High Places**: A robotics challenge to move a shelf of pallets while traveling through an obstacle-filled environment.

- **Soda Me**: A robotics challenge of getting a soda into the hand of the human without damaging the soda.

- **Chrome Thumb**: A robotics challenge of getting a robot to till, plant, and water crops inside a fenced garden.

- **Silicon Sonata**: Build robots capable of grabbing the cello and the bow, turning both items, and moving the bow back and forth across the cello strings.

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- ***Across the Goo***: *A robotics challenge of turning valves in a chemical goo factory in order to stop a goo leak.*

- ***Byte of the Living Dead***: *A robotics challenge of navigating an obstacle-filled store, detaining zombies, breaking down barriers, and rescuing humans.*

- ***Dance, Dance Robot Revolution***: *Create a robot that can hit at least 70% of the floor targets during a complicated dance routine.*

ROBOT REPAIR CHALLENGE MODULES

- ***Center of Mass*** - *Balance the robot's parts so that its mass is centered.*

- ***RPM***: *Adjust the RPM of a robot so that its wheels move faster than the conveyor belt that it's on.*

- ***Motor Controls***: *Reconfigure controls to fix a robot that can only turn in circles. Map inputs to motors and restore full movement.*

- ***Resize Piston***: *Resize the robot's piston to reach the keyboard using the resize tool.*

- ***Flip Motor Direction***: *Reverse one side's motors and get your robot driving straight in this RoboRepair challenge.*

- ***Transmitters***: *Use the right hand and left hand transmitters to create a complex control scheme for nested robots.*

- ***Sliding Joints***: *Change the joint types in a claw machine so that the claw can move around.*

- ***Rotational Joints***: *change the joint type on a robot so that it can turn a key inside of a locked treasure chest.*

- ***Surface Joints***: *Change the joint type on a machine so that the bowling ball can make it down the ramp and hit the bowling pins.*